▶ Recommendation: Clean-sampling techniques are recommended when collecting samples for analysis of trace-organic compounds and major inorganic elements, particularly when the target analyte could be subject to contamination from field or laboratory procedures at a level that could exceed dataquality requirements.

Table 4-2. Clean Hands/Dirty Hands techniques for water-quality sampling

- Clean Hands/Dirty Hands techniques require two or more people working together.
- At the field site, one person is designated as Clean Hands (CH) and a second person as Dirty Hands (DH). Although specific tasks are assigned at the start to CH or DH, some tasks overlap and can be handled by either, as long as the prescribed care is taken to prevent contaminating the sample.
- Both *CH* and *DH* wear appropriate disposable, powderless gloves during the entire sampling operation and change gloves frequently, usually with each change in task. (Wearing multiple layers of gloves allows rapid glove changes.) Gloves must be appropriate to withstand any acid, solvent, or other chemical substance that will be used or contacted.
- CH takes care of all operations involving equipment that contacts the sample; for example,

СН

- Handles the surface-water sampler bottle.
- Handles the discharge end of the surface-water or ground-water sample tubing.
- Transfers sample to churn or cone splitter.
- Prepares a clean work space (inside vehicle).
- Sets up processing and preservation chambers.
- Places equipment inside chambers (for example, sample bottles, filtration and preservation equipment).
- Works exclusively inside chambers during collection/processing and preservation.
- Changes chamber covers, as needed.
- Sets up field-cleaning equipment and cleans equipment.
- DH takes care of all operations involving contact with potential sources of contamination; for example, DH
 - Works exclusively exterior to processing and preservation chambers.
 - Prepares and operates sampling equipment, including pumps and discrete samplers, peristaltic pump switch, pump controller, manifold system.
 - Operates cranes, tripods, drill rigs, vehicles, or other support equipment.
 - Handles the compressor or other power supply for samplers.
 - Handles tools such as hammers, wrenches, keys, locks, and sample-flow manifolds.
 - Handles single or multiparameter instruments for field measurements.
 - Handles the churn carrier, including outer protective bags.
 - Handles stream-gaging or water-level equipment.
 - Sets up and calibrates field-measurement instruments.
 - Measures and records water levels and field measurements.